

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

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AUG 07 2001

Applicant

Petros A. Ioannou, et al.

Filing Date
November 12, 1999

Group Art Unit

2753 2451

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JKH	4,772,963	09/20/88	Van Lahr, et al.	300	47	
JKH	4,816,947	03/28/89	Vinal, et al.	300	113	
JKH	5,490,091	02/06/96	Kogan, et al.	964	554	
JKH	5,661,760	08/26/97	Patapoutian, et al.	360 375	77.08X	
JKH	5,796,534	08/18/98	Yamamoto, et al.	360	48	
JKH	5,875,066	02/23/99	Ottesen	360	77.11	
JKH	5,917,784	06/29/99	Supino, et al.	360	32	
JKH	5,938,790	08/17/99	Marrow	714	705	
JKH	5,946,158	08/31/99	Nazarian, et al.	300	77.04	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation
						YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER	Habermeier	DATE CONSIDERED
		17 JUN 02

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2753-2651

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JKH	4,056,830	11/01/77	Smith	360	54	
JKH	4,204,234	05/20/80	Noble	360	77	
JKH	4,445,153	04/24/84	Fujimoto, et al.	360	77	
JKH	4,499,510	02/12/85	Harding, et al.	360	77	
JKH	4,563,713	01/07/86	Cahoon	360	75	
JKH	4,642,709	02/10/87	Vinal	360	77	
JKH	4,701,815	10/20/87	Yada, et al.	360	77	
JKH	4,890,172	12/26/89	Watt, et al.	360	77.04	
JKH	4,924,160	05/08/90	Tung	340	561	
JKH	5,073,834	12/17/91	Best, et al.	360	77.08	
JKH	5,499,232	03/12/96	Hardwick	360	275.3	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

JKH	L.N. He, et al., "Estimation of Track Misregistration by Using Dual-Stripe Magnetoresistive Heads," IEEE Transactions on Magnetics, Vol. 34, No. 4, pp. 2348-2355, July 1998.
JKH	IBM Research, "The Giant Magnetoresistive Head: A Giant Leap for IBM Research," http://www.research.ibm.com/research/gmr.html , pp. 1-2, August 21, 1998.

Page 1 of 1

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Abornemeh	17 Jun 02
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EXAMINER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JK	4,404,676	09-13-83	DeBenedictis	—	—	
JK	4,816,938	03-28-89	Cowen, et al.	—	—	
JK	4,920,442	04-24-90	Dimmick	—	—	
JK	5,189,572	02-23-93	Gooch	—	—	
JK	5,233,487	08-03-93	Christensen, et al.	360	77.04	
JK	5,523,902	06-04-96	Pederson	—	—	
JK	5,541,783	07-30-96	Yamamoto, et al.	—	—	
JK	5,585,975	12-17-96	Bliss	—	—	
JK	5,668,678	09-16-97	Reed, et al.	—	—	
JK	5,677,809	10-14-97	Kadlec	—	—	
JK	5,717,538	02-10-98	Cheung, et al.	—	—	
JK	5,724,205	03-03-98	Choi	—	—	

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION (YES/NO)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

JK	G. F. Franklin, et al., "Design of a Disk Drive Servo: A Case Study," Digital Control of Dynamic Systems 3 rd Edition, pp. 649-689, 1998
JK	E. Grochowski, et al., "Future Trends In Hard Disk Drives," IEEE Transactions on Magnetics, Vol. 32, pp. 1850-1854, 1996
JK	S. E. Baek, et al., "Design of a Multi-Rate Estimator And Its Application to a Disk Drive Servo System," Proc. Amer. Contr. Conf., San Diego, CA, pp. 3640-3644, June 1999
JK	X. Hu, et al., "Discrete-Time LQG/LTR Dual-Stage Controller Design And Implementation For High Track Density HDDs," Proc. Amer. Contr. Conf., San Diego, CA, pp. 4111-4115, June 1999
JK	S. Hara, et al., "Two-Degree-of-Freedom Controllers For Hard Disk Drives With Novel Reference Signal Generation," Proc. Amer. Contr. Conf., San Diego, CA, pp. 4132-4136, June 1999
JK	M. T. White, et al., "Rejection of Disk Drive Vibration And Shock Disturbances With a Disturbance Observer," Proc. Amer. Contr. Conf., San Diego, CA, pp. 4127-4131, June 1999

EXAMINER *Habermann* DATE CONSIDERED
(7 Jun 02)

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S E R V I C EDocket Number (Optional)
81858.0004Application Number
09/439,055INFORMATION DISCLOSURE CITATION
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November 12, 1999

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U.S. PATENT DOCUMENTS

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>jth</i>	5,754,353	05-19-98	Behrens, et al.	—	—	
<i>jth</i>	5,796,543	08-18-98	Ton-That	—	—	
<i>jth</i>	5,825,579	10-20-98	Cheung, et al.	—	—	
<i>jth</i>	5,841,601	11-24-98	Fisher	—	—	
<i>jth</i>	5,847,894	12-08-98	Blank, et al.	—	—	
<i>jth</i>	5,909,661	06-01-99	Abramovitch, et al.	—	—	
<i>jth</i>	5,946,156	08-31-99	Schwarz, et al.	—	—	
<i>jth</i>	5,949,605	09-07-99	Lee, et al.	—	—	
<i>jth</i>	5,949,603	09-07-99	Brown, et al.	—	—	
<i>jth</i>	5,961,658	10-05-99	Reed, et al.	—	—	

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION (YES/NO)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>jth</i>	D. Hernandez, "Dual-Stage Track-Following Servo Design For Hard Disk Drives," Proc. Amer. Contr. Conf., San Diego, CA, pp. 4116-4121, June 1999
<i>jth</i>	J. Li, et al., "Rejection of Repeatable And Non-Repeatable Disturbances For Disk Drive Actuators," Proc. Amer. Contr. Conf., San Diego, CA, pp. 3615-3619, June 1999
<i>jth</i>	Y. Huang, et al., "Robustness Analysis on a High Bandwidth Disk Drive Servo System With an Instrumental Suspension," Proc. Amer. Contr. Conf., San Diego, CA, pp. 3620-3624, June 1999
<i>jth</i>	Y. Huang, et al., "A Novel Disturbance Observer Design For Magnetic Hard Drive Servo System With a Rotary Actuator," IEEE Transactions on Magnetics, Vol. 34, No. 4, pp. 1892-1894, July 1998
<i>jth</i>	Y. Mizoshita, et al., "Vibration Minimized Access Control For Disk Drives," IEEE Transactions on Magnetics, Vol. 32, No. 3, pp. 1793-1798, May 1996
<i>jth</i>	L. S. Fan, et al., "Magnetic Recording Head Positioning at Very High Track Densities Using a Microactuator-Based, Two-Stage Servo System," IEEE Transactions on Industrial Electronics, Vol. 42, No. 3, pp. 222-233, June 1995
<i>jth</i>	W. Guo, et al., "A High Bandwidth Piezoelectric Suspension For High Track Density Magnetic Data Storage Devices," IEEE Transactions on Magnetics, Vol. 34, No. 4, pp. 1907-1909, July 1998

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